

Patent Abstracts of Japan

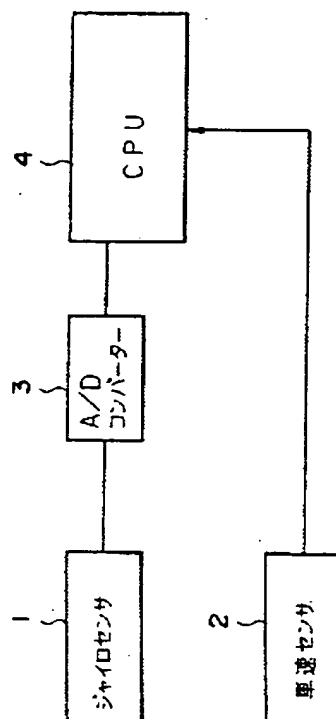
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TITLE : DETECTING DEVICE FOR ANGLE
VARIATION QUANTITY OF VEHICLE



ABSTRACT : PURPOSE: To accurately detect the quantity of the angle variation of the vehicle by correct a drift temporarily, calculating the quantity of an error in the angle variation until a drift is corrected again, and subtracting the error quantity from the calculated angle.

CONSTITUTION: A gyro-sensor 1 outputs a voltage which is proportional to the angular velocity around the yaw axis of the vehicle. The output voltage of the sensor 1 is inputted to a CPU 4 through an A/D converter 3 and vehicle speed information outputted by a vehicle speed sensor 2 is also inputted to the CPU 4, which performs various kinds of arithmetic operation according to those pieces of input information. For example, it is decided from the output of the sensor 2 whether the vehicle is at a stop or not and when the vehicle is at a stop, the actual angular speed is 0, so a drift is corrected. Further, when the latest drift quantity is calculated from the output voltage of the sensor 1 in the stopping state of the vehicle, the data is utilized to correct the output value of the sensor 1 until a new drift quantity is calculated. Further, when the drift quantity is detected, the quantity of the error in azimuth detection is calculated from the quantity of variation in drift from the last time to this time.

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